



OMB No. 0651-0011

**INFORMATION
DISCLOSURE
STATEMENT**

Atty. Docket No.: 57278US002

Serial No.: 10/028,025

Applicant(s): Robert S. Davidson, Danny B. Anderson, Richard A. Gerth and David R. Holm

Filing Date: December 20, 2001

Group:

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If appropriate
Vm	2,801,168	07/30/1957	Goddard			
h	2,816,831	12/17/1957	Goddard			
	3,036,057	05/22/1962	Wallace			
	3,201,365	08/17/1965	Charlesworth et al.			
	3,444,052	05/13/1969	Bracken et al.			
	3,453,184	07/01/1969	Gemassmer et al.			
	3,470,070	09/30/1969	Heckart			
	3,493,470	02/03/1970	Irvin			
	3,495,648	02/17/1970	Amadon			
	3,538,193	11/03/1970	Meredith			
	3,582,365	06/01/1971	Lindsey			
	3,585,104	06/15/1971	Kleinert			
	3,586,089	06/22/1971	Mato et al.			
	3,618,588	11/09/1971	Anwar et al.			
	3,634,300	01/11/1972	Fischer et al.			
	3,635,917	01/18/1972	Roth et al.			
	3,642,492	02/15/1972	Arndt			
	3,656,534	04/18/1972	Bain et al.			
	3,668,161	06/06/1972	Nauman et al.			
	3,738,409	06/12/1973	Skidmore			
	3,773,658	11/20/1973	Vu et al.			
	3,799,234	03/26/1974	Skidmore			
d	3,816,240	06/11/1974	Franz et al.			
m	3,852,503	12/03/1974	Magnino et al.			

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Document Number	Date of Publication	Country	Class	SubClass	Translation
					Yes No

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**EXAMINER**

V. Manthorn

Date Considered

6/26/04

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Patent and Trademark Office, U.S. Department of Commerce



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TC 1706**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If appropriate
✓/h	3,853,839	12/10/1974	Magnino et al.			
✓	3,862,014	01/21/1975	Atkins et al.			
	3,893,940	07/08/1975	Ohogoshi et al.			
	3,901,673	08/26/1975	Zahn et al.			
	3,920,505	11/18/1975	Helleur			
	3,941,664	03/02/1976	Scoggin			
	3,966,538	06/29/1976	Hagberg			
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	4,239,589	12/16/1980	Elton et al.			
	4,255,314	03/10/1981	Miyoshi et al.			
	4,294,652	10/13/1981	Newman			
	4,314,827	02/09/1982	Leitheiser et al.			
	4,375,524	03/01/1983	Rowe			
	4,394,219	07/19/1983	Mix et al.			
	4,414,341	11/08/1983	Williams			
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	4,629,663	12/16/1986	Brown et al.			
	4,686,086	08/11/1987	Rowe			
u	4,692,482	09/08/1987	Lohrengel			
✓/h	4,897,157	01/30/1990	Elmore et al.			

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Document Number	Date of Publication	Country	Class	SubClass	Translation
					Yes No

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**EXAMINER**

V. Manoharan

Date Considered

6/26/04

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FEB 28 2002
TC 1700**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
✓	4,931,414	06/05/1990	Wood et al.			
✓	5,061,472	10/29/1991	Lailach et al.			
	5,089,087	02/18/1992	Elmore et al.			
	5,277,759	01/11/1994	Sannholm			
	5,368,668	11/29/1994	Tochacek et al.			
	5,472,568	12/05/1995	Mullen et al.			
	5,723,433	03/03/1998	Duvall et al.			
✓	5,730,836	03/24/1998	Greig et al.			
	5,968,312	10/19/1999	Sephton			

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						Yes	No
✓	BE 804182	02/28/1974	Belgium			English Abstract Only	X
	DE 25 11 846	03/18/1975	Germany			X	
	EP 0 939 287 A1	09/01/1999	EPO				
	JP 51018781	02/14/1976	Japan			English Abstract Only	X
	JP 54 123577	09/25/1979	Japan			English Abstract Only	X
	JP 54 025270	02/26/1979	Japan			X	
	JP 56 058501	05/21/1981	Japan			English Abstract Only	X
	JP 59 213711	12/03/1984	Japan			English Abstract Only	X
	JP 89019682	12/04/1989	Japan			English Abstract Only	X
✓	SU 1348616	03/11/1986	Soviet Union			English Abstract Only	X

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

EXAMINER

V. Manoharan

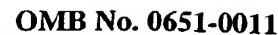
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Patent and Trademark Office, U.S. Department of Commerce

Substitute for form 1449A/PTO (modified)

Application Number

10/028025

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December 20, 2001

First Named Inventor

Davidson, Robert S.

Art Unit

Unknown

Examiner Name

Unknown

Attorney Case Number

57278US002

(Use as many sheets as necessary)

Page 1 of 1

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code If Known)			
✓	A1	US- 3,047,362	07/31/1962	Smith	
↑	A2	US- 3,638,708	02/01/1972	Farin	
	A3	US- 4,551,198	11/05/1985	Wiley	
	A4	US- 4,789,428	12/06/1988	Ryham	
	A5	US- 5,143,579	09/01/1992	Field et al.	
	A6	US- 5,868,805	02/09/1999	Nilsson	
✓	A7	US- 5,984,987	11/16/1999	Kohl	
	A8	US-			

Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (If known)				
✓	B1	GB	285,933	20-02-1928			
✓	B2	WO	00/28136	18-05-2000			
	B3						
	B4						
	B5						
	B6						
	B7						

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	
	C2	
	C3	

*Examiner: *V. Manoharan*Date Considered: *6/24/24*

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